DATA VALIDATION REPORT FOR PCB HOMOLOG DATA

SAUGET/E. ST. LOUIS RESIDENTIAL PCB/DIOXIN SAMPLING SAUGET AND E. ST. LOUIS, ILLINOIS

Date: January 12, 2010

Laboratory: Columbia Analytical Services (CAS), Rochester, New York

Laboratory Work Order #: R0906411

Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (WESTON) Superfund

Technical Assessment and Response Team (START)

Weston Analytical Work Order #/TDD #: 20405.016.008.0828.00/ S05-0008-0910-033

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for 36 soil samples collected for the Sauget/E. St. Louis Residential PCB/Dioxins Sampling Site (Sauget) that were analyzed for PCB homologs using U.S. Environmental Protection Agency (U.S. EPA) Method 680.

A quality assurance (QA) level IV data package was received from CAS. The data validation was conducted in general accordance with the U.S. EPA Contract Laboratory Program "National Functional Guidelines for Superfund Organic Methods Data Review" dated June 2008. The attachment contains the results summary sheets.

PCB HOMOLOGS BY U.S. EPA METHOD 680

1. Samples

The following table summarizes the soil samples for which this data validation was conducted.

Samples	Lab ID	Date	Date	Date Analyzed
		Collected	Extracted	
SE-SS-01-110409	R0906411-001	11/04/2009	11/9/2009	11/18/2009
SE-SS-02-110409	R0906411-002	11/04/2009	11/9/2009	11/18/2009
SE-SS-03-110409	R0906411-003	11/04/2009	11/9/2009	11/18/2009
SE-SS-04-110409	R0906411-004	11/04/2009	11/9/2009	11/18/2009
SE-SS-05-110409	R0906411-005	11/04/2009	11/9/2009	11/23/2009 - 11/24/2009
SE-SS-05-110409-D	R0906411-006	11/04/2009	11/9/2009	11/20/2009 - 11/23/2009
SE-SS-06-110409	R0906411-007	11/04/2009	11/9/2009	11/20/2009 - 11/23/2009
SE-SS-07-110409	R0906411-008	11/04/2009	11/11/2009	12/2/2009
SE-SS-08-110409	R0906411-009	11/04/2009	11/11/2009	12/2/2009
SE-SS-09-110409	R0906411-010	11/04/2009	11/11/2009	12/2/2009
SE-SS-10-110409	R0906411-011	11/04/2009	11/11/2009	12/2/2009
SE-SS-11-110409	R0906411-012	11/04/2009	11/11/2009	12/2/2009
SE-SS-12-110409	R0906411-013	11/04/2009	11/11/2009	12/2/2009
SE-SS-13-110509	R0906411-014	11/05/2009	11/9/2009	11/20/2009 - 11/23/2009

Data Validation Report for PCB Homolog Data

Sauget/E. St. Louis Residential PCB/Dioxins Sampling Site

Columbia Analytical Services

Laboratory Work Order #: R0906411

Samples	Lab ID	Date	Date	Date Analyzed
•		Collected	Extracted	•
SE-SS-14-110509	R0906411-015	11/05/2009	11/9/2009	11/23/2009 - 11/24/2009
SE-SS-15-110509	R0906411-016	11/05/2009	11/9/2009	11/20/2009 - 11/23/2009
SE-SS-16-110509	R0906411-017	11/05/2009	11/9/2009	11/20/2009 - 11/23/2009
SE-SS-17-110509	R0906411-018	11/05/2009	11/9/2009	11/20/2009 - 11/23/2009
SE-SS-18-110509	R0906411-019	11/05/2009	11/9/2009	11/20/2009 - 11/23/2009
SE-SS-19-110509	R0906411-020	11/05/2009	12/2/2009	12/4/2009
SE-SS-20-110509	R0906411-021	11/05/2009	12/2/2009	12/4/2009
SE-SS-21-110509	R0906411-022	11/05/2009	12/2/2009	12/4/2009
SE-SS-22-110509	R0906411-023	11/05/2009	12/2/2009	12/4/2009
SE-SS-23-110509	R0906411-024	11/05/2009	12/2/2009	12/4/2009
SE-SS-23-110509-D	R0906411-025	11/05/2009	12/2/2009	12/4/2009
SE-SS-24-110609	R0906411-026	11/06/2009	12/2/2009	12/4/2009
SE-SS-25-110609	R0906411-027	11/06/2009	12/2/2009	12/4/2009
SE-SS-26-110609	R0906411-028	11/06/2009	12/2/2009	12/7/2009
SE-SS-27-110609	R0906411-029	11/06/2009	12/2/2009	12/7/2009
SE-SS-28-110609	R0906411-030	11/06/2009	12/2/2009	12/7/2009
SE-SS-29-110609	R0906411-031	11/06/2009	12/2/2009	12/7/2009
SE-SS-30-110609	R0906411-032	11/06/2009	12/2/2009	12/7/2009
SE-SS-31-110609	R0906411-033	11/06/2009	11/11/2009	12/2/2009
SE-SS-32-110609	R0906411-034	11/06/2009	11/11/2009	12/3/2009
SE-SS-33-110609	R0906411-035	11/06/2009	11/11/2009	12/3/2009
SE-SS-34-110609	R0906411-036	11/06/2009	11/11/2009	12/3/2009

2. <u>Holding Times</u>

Method 680 states that the holding time limit for PCB homologs in water samples is 7 days to extraction and 40 days from extraction to analysis but does not state a holding time limit for PCB homologs in soil samples. Therefore, the PCB Aroclor holding time limit for soil samples was utilized. The holding time limit for PCB Aroclors in soil samples is 14 days to extraction and 40 days from extraction to analysis. This was met for all samples except for samples with laboratory IDs R0906411-020 through -32. These samples were extracted on 12/2/2009 or approximately 13 to 14 days past the holding time. Per the data validation guidance, detected results in theses samples were flagged "J" and the quantitation limits for no detected results were flagged "UJ". These results should be considered estimated.

Data Validation Report for PCB Homolog Data

Sauget/E. St. Louis Residential PCB/Dioxins Sampling Site

Columbia Analytical Services

Laboratory Work Order #: R0906411

3. <u>Initial Calibration Results</u>

The initial calibration gave acceptable results. The relative standard deviation (RSD) was less than 20 percent as required between calibration factors (CF).

4. <u>Continuing Calibration Results</u>

The CF for each analyte calculated from the continuing calibration verification standard did not exceed a percent difference of more than \pm 15 percent when compared to the mean CF from the initial calibration curve.

5. Blanks

Method blanks were analyzed with the samples as required and were free of target compound contamination above the reporting limit.

6. Surrogates

The surrogates were not recovered in the samples. According to the laboratory, the surrogates were all diluted out during the extraction process. Because the surrogates were recovered in the QC samples with acceptable recoveries, no qualifications were applied.

7. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

CAS used samples SE-SS-01-110409, SE-SS-28-110409, and SE-SS-31-110409 for the spiked samples for MS/MSD analysis. The amount of target analyte spiked in most of the samples was below the reporting limits. Therefore, if a target analyte was not detected in the sample then the spiked amount was also not detected as it was below the reporting limit. In addition, if the spiked amount is less than four times the sample concentration, then adequate recovery of the spike may be difficult especially if the sample was diluted after the spike was added. Most spike recoveries were outside QC limits; however, adequate recovery of the spikes is not expected for the reasons listed. No qualifications were applied.

8. <u>Laboratory Control Sample (LCS) Results</u>

The LCS and LCS duplicate recoveries were within the laboratory-established QC limits for percent recovery and relative percent difference (RPD).

Data Validation Report for PCB Homolog Data

Sauget/E. St. Louis Residential PCB/Dioxins Sampling Site

Columbia Analytical Services

Laboratory Work Order #: R0906411

9. Field Duplicate Results

Sample SE-SS05-110409-D is a field duplicate of sample SE-SS05-110409 and sample SE-SS23-110509-D is a field duplicate of sample SE-SS23-110509. The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. Note that there is no established QC limit for RPD for field duplicates; however, 50 RPD is generally used for evaluation.

For sample SE-SS05-110409 and its duplicate, there were no detections of target analytes in the samples indicating good correlation between the investigative sample and its duplicate.

For sample SE-SS23-110409 and its duplicate, three target analytes were detected in the investigative sample and four target analytes were detected in the field duplicate. The RPDs ranged from 12 to 21 percent indicating good correlation. The field duplicate did contain one compound detection that the parent sample did not; however, the detected result was close to the reporting limit.

10. Overall Assessment of Data

The data are acceptable use as qualified based on the information received.

ATTACHMENT

CAS
RESULTS SUMMARY WITH QUALIFIERS



REPORT QUALIFIERS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Pesticide/Aroclors: Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.



CAS/Rochester Lab ID # for State Certifications1

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Nebraska Accredited

Navy Facilities Engineering Service Center Approved

Nevada ID # NY-00032 New Jersey ID # NY004 New York ID # 10145 New Hampshire ID # 294100 A/B Pennsylvania ID# 68-786 Rhode Island ID # 158 West Virginia ID # 292

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code: SE-SS-01-110409 R0906411-001 Service Request: R0906411

Date Collected: 11/4/09 0940

Date Received: 11/7/09

Units: μg/Kg Basis: Dry

Percent Solids: 79.3

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

A CALAN NAME OF THE OWNER O	Day 14 O	A LUMB		Dilution	_,		Extraction		
Analyte Name	Result Q	MRL		Factor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Total	130 U	130		5	11/ 9/09	11/18/09 13:3	6 100258	180093	TIVE I
Dichlorobiphenyls, Total	130 U	130		5	11/ 9/09	11/18/09 13:3	6 100258	180093	
Trichlorobiphenyls, Total	130 U	130		5	11/ 9/09	11/18/09 13:3	6 100258	180093	
Tetrachlorobiphenyls, Total	130 U	130		5	11/ 9/09	11/18/09 13:3	6 100258	180093	13 11
Pentachlorobiphenyls, Total	130 U	130		- 5	11/ 9/09	11/18/09 13:3	6 100258	180093	
Hexachlorobiphenyls, Total	130 U	130		5	11/ 9/09	11/18/09 13:3	6 100258	180093	
Heptachlorobiphenyls, Total	130 U	130		5	11/ 9/09	11/18/09 13:3	6 100258	180093	11,11
Octachlorobiphenyls, Total	130 U	130		5	11/ 9/09	11/18/09 13:3	6 100258	180093	
Nonachlorobiphenyls, Total	130 U	130		5	11/ 9/09	11/18/09 13:3	6 100258	180093	
Decachlorobiphenyls, Total	180	130	_ 8 - 0	5	11/ 9/09	11/18/09 13:3	6 100258	180093	WA.

Surrogate Name		%R	Rec	Control Limits	Date Analyzed	Q	Note		
gamma-BHC (Lindane)		0	*	30-150	11/18/09 13:36	D		- 11111	TIPE TERM
4,4'-DDT		0	*	30-150	11/18/09 13:36	D			

C	om	m	ení	s:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

SE-SS-02-110409

Sample Name: Lab Code:

R0906411-002

Service Request: R0906411

Date Collected: 11/4/09 1022

Date Received: 11/7/09

Units: µg/Kg Basis: Dry

Percent Solids: 79.2

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

						D	ilution	Date	Date	Extraction	Analysi	S
Analyte Name		Result	Q	MRL		F	actor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Total	ing in the	130	U	130		= 1	5	11/ 9/09	11/18/09 15:5	6 100258	180093	No.
Dichlorobiphenyls, Total		130	U	130			5	11/9/09	11/18/09 15:5	6 100258	180093	
Trichlorobiphenyls, Total		130	U	130			5	11/ 9/09	11/18/09 15:5	6 100258	180093	
Tetrachlorobiphenyls, Total	1 10	130	U	130	1		5	11/9/09	11/18/09 15:5	6 100258	180093	by u
Pentachlorobiphenyls, Total		130	U	130			5	11/9/09	11/18/09 15:5	6 100258	180093	
Hexachlorobiphenyls, Total		130	U	130			5	11/ 9/09	11/18/09 15:5	6 100258	180093	
Heptachlorobiphenyls, Total	77 1	130	U	130			5	11/ 9/09	11/18/09 15:5	6 100258	180093	ex lent
Octachlorobiphenyls, Total		130	U :	130			5	11/9/09	11/18/09 15:5	6 100258	180093	
Nonachlorobiphenyls, Total		130	U	130			5	11/ 9/09	11/18/09 15:5	6 100258	180093	
Decachlorobiphenyls, Total	110,911	320		130			5	11/ 9/09	11/18/09 15:5	6 100258	180093	E UV

Surrogate Name	% I	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	0	*	30-150	11/18/09 15:56	D	Taken	
4,4'-DDT	0	*	30-150	11/18/09 15:56	D		

Comment	8:
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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code: SE-SS-03-110409

R0906411-003

Service Request: R0906411

Date Collected: 11/4/09 1059

Date Received: 11/7/09

Units: μg/Kg Basis: Dry

Percent Solids: 77.8

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

Analyte Name		Result Q	MRL	Dilution Factor	Date Extracted		Extraction Lot	-	s Note
Monochlorobiphenyls, Total	CHIER.	130 U	130	 5	11/ 9/09	11/18/09 17:0	6 100258	180093	1111
Dichlorobiphenyls, Total		130 U	130	5	11/ 9/09	11/18/09 17:0	6 100258	180093	
Trichlorobiphenyls, Total		130 U	130	5	11/ 9/09	11/18/09 17:0	6 100258	180093	
Tetrachlorobiphenyls, Total		130 U	130	 5	11/ 9/09	11/18/09 17:0	6 100258	180093	- 15
Pentachlorobiphenyls, Total		130 U	130	5	11/ 9/09	11/18/09 17:0	6 100258	180093	
Hexachlorobiphenyls, Total		130 U	130	5	11/ 9/09	11/18/09 17:0	6 100258	180093	
Heptachlorobiphenyls, Total	, T.	130 U	 130	 - 5	11/ 9/09	11/18/09 17:0	6 100258	180093	
Octachlorobiphenyls, Total		130 U	130	5 =	11/ 9/09	11/18/09 17:0	6 100258	180093	
Nonachlorobiphenyls, Total		130 U	130	5	11/ 9/09	11/18/09 17:0	6 100258	180093	
Decachlorobiphenyls, Total		130 U	130	5	11/ 9/09	11/18/09 17:0	6 100258	180093	er II

Surrogate Name		%R	lec	Control Limits	Date Analyzed Q	Note	Superior Control
gamma-BHC (Lindane)		0	*	30-150	11/18/09 17:06 D		nie al kenina bi
4,4'-DDT		0	*	30-150	11/18/09 17:06 D		and the same

Comments:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name:

SE-SS-04-110409

Lab Code:

R0906411-004

Service Request: R0906411

Date Collected: 11/4/09 1126

Date Received: 11/7/09

Units: μg/Kg Basis: Dry

Percent Solids: 77.4

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

						Dilution	Date	Date	Extraction	Analysi	is
Analyte Name	Result Q		MRL			Factor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Total	520 U		520			20	11/ 9/09	11/18/09 17:4	1 100258	180093	песа
Dichlorobiphenyls, Total	520 U		520	•		20	11/ 9/09	11/18/09 17:4	1 100258	180093	
Trichlorobiphenyls, Total	520 U		520			20	11/9/09	11/18/09 17:4	1 100258	180093	
Tetrachlorobiphenyls, Total	520 U		520			20	11/ 9/09	11/18/09 17:4	1 100258	180093	mif
Pentachlorobiphenyls, Total	1700		520		50	20	11/ 9/09	11/18/09 17:4	1 100258	180093	
Hexachlorobiphenyls, Total	1400		520			20	11/ 9/09	11/18/09 17:4	1 100258	180093	
Heptachlorobiphenyls, Total	520 U	-	520			20	11/ 9/09	11/18/09 17:4	1 100258	180093	
Octachlorobiphenyls, Total	520 U		520			20	11/ 9/09	11/18/09 17:4	1 100258	180093	
Nonachlorobiphenyls, Total	520 U		520			20	11/ 9/09	11/18/09 17:4	1 100258	180093	
Decachlorobiphenyls, Total	1300		520			20	11/ 9/09	11/18/09 17:4	1 100258	180093	d. 17 . 72.

Surrogate Name	, i gatt	%Rec	Tu/	Control Limits	Date Analyzed	Q	Note	encel en gynnyd;
gamma-BHC (Lindane)	1:	0	*	30-150	11/18/09 17:41		ديران	عالاهي الناط
4,4'-DDT		0	*	30-150	11/18/09 17:41	D		

Comments:		
		

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name:

Lab Code:

SE-SS-05-110409

R0906411-005

Service Request: R0906411

Date Collected: 11/4/09 1329

Date Received: 11/7/09

Units: μg/Kg Basis: Dry

Percent Solids: 79.7

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

					Dilution		Date	Date	Extraction	Analysi	S
Analyte Name		Result	Q	MRL		Factor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Total		250	U	250		10	11/ 9/09	11/23/09 20:0	5 100258	180967	
Dichlorobiphenyls, Total	- 0	250	U	250		10	11/ 9/09	11/23/09 20:0	5 100258	180967	
Trichlorobiphenyls, Total		250	U	250		10	11/ 9/09	11/23/09 20:0	5 100258	180967	
Tetrachlorobiphenyls, Total	ī	250	U	250		10	11/ 9/09	11/23/09 20:0	5 100258	180967	11-17-
Pentachlorobiphenyls, Total		250	U	250		10	11/ 9/09	11/23/09 20:0	5 100258	180967	
Hexachlorobiphenyls, Total	11 11	250	U	250		10	11/ 9/09	11/23/09 20:0	5 100258	180967	
Heptachlorobiphenyls, Total	0	250	U	250		10	11/ 9/09	11/23/09 20:0	5 100258	180967	
Octachlorobiphenyls, Total		250	U	250		10	11/ 9/09	11/23/09 20:0	5 100258	180967	
Nonachlorobiphenyls, Total		250	U	250		10	11/ 9/09	11/23/09 20:0	5 100258	180967	
Decachlorobiphenyls, Total		250	U	250		10	11/ 9/09	11/23/09 20:0	5 100258	180967	-df

Surrogate Name		%I	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	20	0	*	30-150	11/23/09 20:05	D		i ili ja ja ja
4,4'-DDT		0	*	30-150	11/23/09 20:05	D		

Comments:	
Committeens:	

Analytical Report

Client:

Weston Solutions, Incorporated

Sauget-E. St. Louis Residential/20405.016.008.0828.00 Project:

Service Request: R0906411 Date Collected: 11/4/09 1329

Sample Matrix:

Date Received: 11/7/09

Soil

Sample Name: Lab Code:

SE-SS-05-110409

R0906411-005

Units: µg/Kg Basis: Dry

Run Type:

Dilution

Percent Solids: 79.7

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

Analyte Name	Result Q	MRL		Dilution Factor	Date Extracted		Extraction Lot	Analysis Lot Note
Analyte Name	resuit Q	Wilds		ractor	Extracted	Amaryzeu	LOL	Lot Note
Monochlorobiphenyls, Total	250 U	250	* =	10	11/ 9/09	11/24/09 15:3	2 100258	181276
Dichlorobiphenyls, Total	250 U	250		10	11/ 9/09	11/24/09 15:3	2 100258	181276
Trichlorobiphenyls, Total	250 U	250		10	11/ 9/09	11/24/09 15:3	2 100258	181276
Tetrachlorobiphenyls, Total	250 U	250		10	11/ 9/09	11/24/09 15:3	2 100258	181276
Pentachlorobiphenyls, Total	250 U	250		10	11/ 9/09	11/24/09 15:3	2 100258	181276
Hexachlorobiphenyls, Total	250 U	250		10	11/ 9/09	11/24/09 15:3	2 100258	181276
Heptachlorobiphenyls, Total	250 U	250	12	10	11/ 9/09	11/24/09 15:3	2 100258	181276
Octachlorobiphenyls, Total	250 U	250		10	11/ 9/09	11/24/09 15:3	2 100258	181276
Nonachlorobiphenyls, Total	250 U	250		10	11/ 9/09	11/24/09 15:3	2 100258	181276
Decachlorobiphenyls, Total	250 U	250		10	11/ 9/09	11/24/09 15:3	2 100258	181276

			Control	Date			
Surrogate Name	%R	lec	Limits	Analyzed Q	Note		
gamma-BHC (Lindane)	0	*	30-150	11/24/09 15:32 D		JE III L	
4,4'-DDT	0	*	30-150	11/24/09 15:32 D			

Comments:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code: SE-SS-05-110409-D

R0906411-006

Service Request: R0906411

Date Collected: 11/4/09 1329 **Date Received:** 11/7/09

Units: μg/Kg Basis: Dry

Percent Solids: 80.2

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

		#1		Dilution	Date		Extraction	Analysi	I S
Analyte Name		Result Q	MRL	Factor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Total	4	150 U	150	6	11/ 9/09	11/20/09 12:4:	3 100258	180730	mr ²
Dichlorobiphenyls, Total		150 U	150	6	11/9/09	11/20/09 12:4:	3 100258	180730	2 2
Trichlorobiphenyls, Total	, br = - 1	150 U	150	6	11/ 9/09	11/20/09 12:4:	3 100258	180730	
Tetrachlorobiphenyls, Total	200	150 U	150	6	11/ 9/09	11/20/09 12:4:	3 100258	180730	287
Pentachlorobiphenyls, Total		150 U	150	6	11/ 9/09	11/20/09 12:4:	3 100258	180730	
Hexachlorobiphenyls, Total	red at	150 U	150	6	11/ 9/09	11/20/09 12:4:	3 100258	180730	
Heptachlorobiphenyls, Total		150 U	150	6	11/ 9/09	11/20/09 12:4:	3 100258	180730	
Octachlorobiphenyls, Total		150 U	150	6	11/ 9/09	11/20/09 12:4:	3 100258	180730	
Nonachlorobiphenyls, Total		150 U	150	6	11/ 9/09	11/20/09 12:43	3 100258	180730	
Decachlorobiphenyls, Total	ř.	150 U	150	6	11/ 9/09	11/20/09 12:4:	3 100258	180730	

Surrogate Name		%R	ec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	en B	0	*	30-150	11/20/09 12:43	D		
4,4'-DDT		0	*	30-150	11/20/09 12:43	D		

Comments:	
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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Service Request: R0906411 Date Collected: 11/4/09 1329

Sample Matrix:

Soil

Date Received: 11/7/09

Sample Name: Lab Code:

SE-SS-05-110409-D

R0906411-006

Units: µg/Kg Basis: Dry

Run Type:

Dilution

Percent Solids: 80.2

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

Analyte Name			Result	0	MRL		ilution Factor	Date Extracted		Extraction		
Analyte Name			Resuit	Q	MIKE		actor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, To	tal	Man in	150	U	150	1 /	6	11/ 9/09	11/23/09 15:2	6 100258	180967	
Dichlorobiphenyls, Total			150	U	150		6	11/ 9/09	11/23/09 15:2	6 100258	180967	
Trichlorobiphenyls, Total			150	U	150		6	11/ 9/09	11/23/09 15:2	6 100258	180967	
Tetrachlorobiphenyls, Tot	al	шĖ	150	U	150		6	11/ 9/09	11/23/09 15:2	6 100258	180967	111
Pentachlorobiphenyls, Tot	al		150	U	150		6	11/ 9/09	11/23/09 15:2	6 100258	180967	
Hexachlorobiphenyls, Tota	al		150	U	150		6	11/ 9/09	11/23/09 15:2	6 100258	180967	
Heptachlorobiphenyls, Tot	tal	gerrie i	150	U	150	ni i	6	11/ 9/09	11/23/09 15:2	6 100258	180967	Ē ₀
Octachlorobiphenyls, Tota	ıl		150	U	150		6	11/ 9/09	11/23/09 15:2	6 100258	180967	
Nonachlorobiphenyls, Tot	al		150	U	150		6	11/ 9/09	11/23/09 15:2	6 100258	180967	
Decachlorobiphenyls, Tota	al		150	U	150	6	6	11/9/09	11/23/09 15:2	6 100258	180967	

Surrogate Name		X Mary	%F	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	- Q.		0	*	30-150	11/23/09 15:26	D	1.0	a be in the Upanin e
4,4'-DDT			0	*	30-150	11/23/09 15:26	D		

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name:

SE-SS-06-110409

Lab Code:

R0906411-007

Service Request: R0906411

Date Collected: 11/4/09 1350

Date Received: 11/7/09

Units: μg/Kg Basis: Dry

Percent Solids: 72.5

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

Analyte Name	Result	0	MRL			Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	100	s Note
		Y	IVATES			ractor	DAII acteu	zmaryzcu		Tot	14016
Monochlorobiphenyls, Total	280	U	280			10	11/ 9/09	11/20/09 17:5	7 100258	180730	Mr. Wy
Dichlorobiphenyls, Total	280	U	280			10	11/9/09	11/20/09 17:5	7 100258	180730	
Trichlorobiphenyls, Total	280	U	280		- 11	10	11/ 9/09	11/20/09 17:5	7 100258	180730	
Tetrachlorobiphenyls, Total	280	U	280	20	0	10	11/ 9/09	11/20/09 17:5	7 100258	180730	12
Pentachlorobiphenyls, Total	280	U	280			10	11/ 9/09	11/20/09 17:5	7 100258	180730	
Hexachlorobiphenyls, Total	280	U	280			10	11/ 9/09	11/20/09 17:5	7 100258	180730	
Heptachlorobiphenyls, Total	280	U	280			10	11/ 9/09	11/20/09 17:5	7 100258	180730	njarc
Octachlorobiphenyls, Total	280	U	280	16.0		10	11/ 9/09	11/20/09 17:5	7 100258	180730	
Nonachlorobiphenyls, Total	280	U	280			10	11/ 9/09	11/20/09 17:5	7 100258	180730	
Decachlorobiphenyls, Total	690		280			10	11/ 9/09	11/20/09 17:5	7 100258	180730	

Surrogate Name	Dest Marginal	%Rec	Control Limits	Date Analyzed Q	Note	and kanny
gamma ^L BHC (Lindane)	114	0 *	30-150	11/20/09 17:57 D	0 1003	
4,4'-DDT		0 *	30-150	11/20/09 17:57 D		

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Sample Name:

Soil

SE-SS-06-110409

Lab Code:

R0906411-007

Run Type:

Dilution

Service Request: R0906411

Date Collected: 11/4/09 1350

Date Received: 11/7/09

Units: µg/Kg
Basis: Dry

Percent Solids: 72.5

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

Analyte Name		Result	Q	MRL		Dilution Factor	Date Extracted		Extraction Lot	Analysis Lot Note
Monochlorobiphenyls, Tota	al	280	U	280		10	11/ 9/09	11/23/09 14:5	1 100258	180967
Dichlorobiphenyls, Total		280	U	280		10	11/9/09	11/23/09 14:5	1 100258	180967
Trichlorobiphenyls, Total		280	U	280		10	11/ 9/09	11/23/09 14:5	1 100258	180967
Tetrachlorobiphenyls, Tota	1 -8 -	280	U	280		10	11/ 9/09	11/23/09 14:5	1 100258	180967
Pentachlorobiphenyls, Tota	1	280	U	280		10	11/9/09	11/23/09 14:5	1 100258	180967
Hexachlorobiphenyls, Total	1	280	U	280		10	11/ 9/09	11/23/09 14:5	1 100258	180967
Heptachlorobiphenyls, Tota	ıl	280	U	280	F.	10	11/ 9/09	11/23/09 14:5	1 100258	180967
Octachlorobiphenyls, Total		280	U	280		10	11/9/09	11/23/09 14:5	1 100258	180967
Nonachlorobiphenyls, Tota		280	U	280		10	11/9/09	11/23/09 14:5	1 100258	180967
Decachlorobiphenyls, Total		590	22	280		10	11/ 9/09	11/23/09 14:5	1 100258	180967

Surrogate Name	ana, Programme		Rec	Control Limits	Date Analyzed Q	Note	. II. III. Series
gamma-BHC (Lindane)		0	*	30-150	11/23/09 14:51 D		n n sa n#Walen&m.
4,4'-DDT		0	*	30-150	11/23/09 14:51 D		. 100

C	om	m	en	ts:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code:

SE-SS-07-110409

R0906411-008

Service Request: R0906411

Date Collected: 11/4/09 1408

Date Received: 11/7/09

Units: µg/Kg Basis: Dry

Percent Solids: 78.4

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

								Date	Date	Extraction	Analysis	
Analyte Name		Result (Q	MRL		311	Factor	Extracted		Lot	•	Note
Monochlorobiphenyls, Tota	1	180 U	J	180		-	7	11/11/09	12/2/09 14:22	2 100368	181720	1=26
Dichlorobiphenyls, Total		180 U	J	180			7	11/11/09	12/2/09 14:22	2 100368	181720	
Trichlorobiphenyls, Total		180 U	J =	180			7	11/11/09	12/2/09 14:22	2 100368	181720	
Tetrachlorobiphenyls, Total	Trans	180 U	J	180	+		7	11/11/09	12/2/09 14:22	2 100368	181720	1190
Pentachlorobiphenyls, Total	I Cholis	180 L	J	180			7	11/11/09	12/2/09 14:22	100368	181720	
Hexachlorobiphenyls, Total		180 U	J	180			7	11/11/09	12/2/09 14:22	2 100368	181720	
Heptachlorobiphenyls, Total	1 130 -	180 L	J	180			7	11/11/09	12/2/09 14:22	2 100368	181720	
Octachlorobiphenyls, Total		180 L	J	180			7	11/11/09	12/2/09 14:22	2 100368	181720	
Nonachlorobiphenyls, Total		180 U	J	180		9.	7	11/11/09	12/2/09 14:22	2 100368	181720	
Decachlorobiphenyls, Total	J. I. Ph. I.	910	Ш	180			7	11/11/09	12/2/09 14:22	100368	181720	

Surrogate Name		%Rec			Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)		7. 1 1 1	0	*	30-150	12/2/09 14:22	D		
4,4'-DDT			0	*	30-150	12/2/09 14:22	D		

Comments:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code:

SE-SS-08-110409

R0906411-009

Service Request: R0906411 Date Collected: 11/4/09 1429

Date Received: 11/7/09

Units: µg/Kg Basis: Dry

Percent Solids: 82.1

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

Analyte Name		Result	Q	N	/IRL		_	ilution actor	Date Extracted	Date Analyzed	Extraction Lot	-	s Note
Monochlorobiphenyls, Tota	l ==+yn u=u	73	U	1270	73		 340	3	11/11/09	12/2/09 14:57	100368	181720	
Dichlorobiphenyls, Total		73	U		73			3	11/11/09	12/2/09 14:57	100368	181720	
Trichlorobiphenyls, Total		73	U		73			3	11/11/09	12/2/09 14:57	100368	181720	
Tetrachlorobiphenyls, Total	- 850	73	U	- 1	73	4	Ō,	3	11/11/09	12/2/09 14:57	100368	181720	- Night
Pentachlorobiphenyls, Total	1	73	U		73			3	11/11/09	12/2/09 14:57	100368	181720	
Hexachlorobiphenyls, Total		73	U		73			3	11/11/09	12/2/09 14:57	100368	181720	
Heptachlorobiphenyls, Tota	1	73	U		73			3	11/11/09	12/2/09 14:57	100368	181720	The State of the S
Octachlorobiphenyls, Total		73	U		73			3	11/11/09	12/2/09 14:57	100368	181720	
Nonachlorobiphenyls, Total	I real landes	73	U		73			3	11/11/09	12/2/09 14:57	100368	181720	
Decachlorobiphenyls, Total	11 11 11	220		1571	73		10	3	11/11/09	12/2/09 14:57	100368	181720	H Sel

Surrogate Name	 %R	lec	Control Limits	Date Analyzed	Q	Note	na vietován
gamma-BHC (Lindane)	0	*	30-150	12/2/09 14:57	D		THE VERY LABOR.
4,4'-DDT	0	*	30-150	12/2/09 14:57	D		

Comments:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name:

SE-SS-09-110409

Lab Code:

R0906411-010

Service Request: R0906411

Date Collected: 11/4/09 1540

Date Received: 11/7/09

Units: μg/Kg
Basis: Dry

Percent Solids: 76.7

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

Analyte Name		Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	•	s Note
Monochlorobiphenyls, Total		78	U	78	 3	11/11/09	12/2/09 16:06	5 100368	181720	
Dichlorobiphenyls, Total		78	U	78	3	11/11/09	12/2/09 16:06	5 100368	181720	
Trichlorobiphenyls, Total		78	U	78	3	11/11/09	12/2/09 16:06	5 100368	181720	
Tetrachlorobiphenyls, Total		78	U	78	 - 3	11/11/09	12/2/09 16:06	100368	181720	=10
Pentachlorobiphenyls, Total		78	U	78	3	11/11/09	12/2/09 16:06	100368	181720	
Hexachlorobiphenyls, Total		78	U	78	3	11/11/09	12/2/09 16:06	5 100368	181720	
Heptachlorobiphenyls, Total		78	U	78	3	11/11/09	12/2/09 16:06	100368	181720	
Octachlorobiphenyls, Total		78	U	78	3	11/11/09	12/2/09 16:06	100368	181720	
Nonachlorobiphenyls, Total		78	U	78	3	11/11/09	12/2/09 16:06	100368	181720	
Decachlorobiphenyls, Total	INCTE:	78	U	78	 3	11/11/09	12/2/09 16:06	100368	181720	

Surrogate Name	1-			%R	ec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)		I	T. J. I. I.	0	*	30-150	12/2/09 16:06	D		
4,4'-DDT				0	*	30-150	12/2/09 16:06	D		

Comments	::
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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name:

SE-SS-10-110409

Lab Code:

R0906411-011

Service Request: R0906411

Date Collected: 11/4/09 1620

Date Received: 11/7/09

Units: µg/Kg Basis: Dry

Percent Solids: 75.2

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

				(2) (8)	Dilution	Date	Date	Extraction	Analysi	S
Analyte Name	Result	Q	MRL		Factor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Total	270	U	270		10	11/11/09	12/2/09 16:41	100368	181720	ingle.
Dichlorobiphenyls, Total	270	U	270		10	11/11/09	12/2/09 16:41	100368	181720	
Trichlorobiphenyls, Total	270	U	270		10	11/11/09	12/2/09 16:41	100368	181720	
Tetrachlorobiphenyls, Total	270	U	270	100	10	11/11/09	12/2/09 16:41	100368	181720	1-1
Pentachlorobiphenyls, Total	270	U	270		10	11/11/09	12/2/09 16:41	100368	181720	
Hexachlorobiphenyls, Total	270	U	270		10	11/11/09	12/2/09 16:41	100368	181720	
Heptachlorobiphenyls, Total	270	U	270		10	11/11/09	12/2/09 16:41	100368	181720	- 9
Octachlorobiphenyls, Total	270	U	270		10	11/11/09	12/2/09 16:41	100368	181720	
Nonachlorobiphenyls, Total	270	U	270		10	11/11/09	12/2/09 16:41	100368	181720	
Decachlorobiphenyls, Total	270	U	270		10	11/11/09	12/2/09 16:41	100368	181720	

					Control		Date			
Surrogate Name			%Rec	, III	Limits	Aı	nalyzed	Q	Note	ะท่า ได้สาราสา
gamma-BHC (Lindane)	THE THE	y vir	0	*	30-150	12/2/	09 16:41	D		
4,4'-DDT			0	*	30-150	12/2/	09 16:41	D		

Comments	:
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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code: SE-SS-11-110409

R0906411-012

Service Request: R0906411

Date Collected: 11/4/09 1650

Date Received: 11/7/09

Units: μg/Kg
Basis: Dry

Percent Solids: 78.5

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

Analyte Name	Result Q	MRL	E: 50	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	
Monochlorobiphenyls, Total	25 U	25		1	11/11/09	12/2/09 19:01	1 100368	181720	
Dichlorobiphenyls, Total	25 U	25		1	11/11/09	12/2/09 19:01	1 100368	181720	
Trichlorobiphenyls, Total	25 U	25		1	11/11/09	12/2/09 19:01	100368	181720	
Tetrachlorobiphenyls, Total	25 U	25		1	11/11/09	12/2/09 19:01	1 100368	181720	
Pentachlorobiphenyls, Total	25 U	25		1	11/11/09	12/2/09 19:01	1 100368	181720	
Hexachlorobiphenyls, Total	25 U	25		1	11/11/09	12/2/09 19:01	1 100368	181720	
Heptachlorobiphenyls, Total	25 U	25		1	11/11/09	12/2/09 19:01	1 100368	181720	
Octachlorobiphenyls, Total	25 U	25		1	11/11/09	12/2/09 19:01	1 100368	181720	
Nonachlorobiphenyls, Total	33	25		1	11/11/09	12/2/09 19:01	100368	181720	
Decachlorobiphenyls, Total	110	25		1	11/11/09	12/2/09 19:01	1 100368	181720	

Surrogate Name	* # ##	%F	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)		0	*	30-150	12/2/09 19:01	D	M	
4,4'-DDT		0	*	30-150	12/2/09 19:01	D		

Comments	

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name:

SE-SS-12-110409

Lab Code:

R0906411-013

Service Request: R0906411

Date Collected: 11/5/09 1715 Date Received: 11/7/09

Units: µg/Kg

Basis: Dry Percent Solids: 72.4

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

								Di	lution	Date	Date	Extraction	Analysi	S
Analyte Name		Result	Q		MRL		- 60 - 15	F	actor	Extracted	Analyzed	Lot	•	Note
Monochlorobiphenyls, Total	11.77	55	U		55	15			2	11/11/09	12/2/09 17:53	1 100368	181720	-30
Dichlorobiphenyls, Total		55	U	- 18	55				2	11/11/09	12/2/09 17:53	1 100368	181720	Mark Co
Trichlorobiphenyls, Total		55	U		55				2	11/11/09	12/2/09 17:53	1 100368	181720	
Tetrachlorobiphenyls, Total	10.0	55	U		55				2	11/11/09	12/2/09 17:51	1 100368	181720	
Pentachlorobiphenyls, Total		56			55		27		2	11/11/09	12/2/09 17:51	1 100368	181720	un.
Hexachlorobiphenyls, Total		93			55				2	11/11/09	12/2/09 17:51	1 100368	181720	i-c
Heptachlorobiphenyls, Total		55	U		55				2	11/11/09	12/2/09 17:51	1 100368	181720	
Octachlorobiphenyls, Total		55	U		55		32		2	11/11/09	12/2/09 17:53	1 100368	181720	
Nonachlorobiphenyls, Total		55	U		55				2	11/11/09	12/2/09 17:51	1 100368	181720	
Decachlorobiphenyls, Total	Wi.	61			55			rie.	2	11/11/09	12/2/09 17:5	1 100368	181720	

Surrogate Name	101 10 10	į,		%F	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)			ir in	0	*	30-150	12/2/09 17:51	D	o Wings	
4,4'-DDT		10		0	*	30-150	12/2/09 17:51	D		

Con	nme	nts:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code:

SE-SS-13-110509

R0906411-014

Service Request: R0906411 Date Collected: 11/5/09 0841

Date Received: 11/7/09

Units: µg/Kg Basis: Dry

Percent Solids: 69.8

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

					Dilution	Date	Date	Extraction	Analysi	S
Analyte Name		Result	Q	MRL	Factor	Extracted		Lot		Note
Monochlorobiphenyls, Total	14 11 4 5 1	140	U	140	5	11/ 9/09	11/20/09 10:5	8 100258	180730	DECEM 1
Dichlorobiphenyls, Total		140	U	140	5	11/9/09	11/20/09 10:5	8 100258	180730	
Trichlorobiphenyls, Total		140	U	140	5	11/9/09	11/20/09 10:5	8 100258	180730	100
Tetrachlorobiphenyls, Total	U4 149	140	U	140	5	11/ 9/09	11/20/09 10:5	8 100258	180730	
Pentachlorobiphenyls, Total		140	U	140	5	11/9/09	11/20/09 10:5	8 100258	180730	400
Hexachlorobiphenyls, Total		140	U	140	5	11/ 9/09	11/20/09 10:5	8 100258	180730	9
Heptachlorobiphenyls, Total		140	U	140	5	11/ 9/09	11/20/09 10:5	8 100258	180730	
Octachlorobiphenyls, Total		140	U	140	5	11/ 9/09	11/20/09 10:5	8 100258	180730	111
Nonachlorobiphenyls, Total		140	U	140	5	11/ 9/09	11/20/09 10:5	8 100258	180730	Y = y
Decachlorobiphenyls, Total		450		140	5	11/ 9/09	11/20/09 10:5	8 100258	180730	

Surrogate Name	 %I	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	0	*	30-150	11/20/09 10:58	D	100 m	
4,4'-DDT	0	*	30-150	11/20/09 10:58	D		

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code: SE-SS-13-110509 R0906411-014

Run Type:

Dilution

Service Request: R0906411

Date Collected: 11/5/09 0841

Date Received: 11/7/09

Units: µg/Kg
Basis: Dry

Percent Solids: 69.8

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot Note
Monochlorobiphenyls, Total	140	U	140	 5	11/ 9/09	11/23/09 13:0	6 100258	180967
Dichlorobiphenyls, Total	140	U	140	5	11/9/09	11/23/09 13:0	6 100258	180967
Trichlorobiphenyls, Total	140	U	140	5.	11/9/09	11/23/09 13:0	6 100258	180967
Tetrachlorobiphenyls, Total	140	U	140	 5	11/ 9/09	11/23/09 13:0	6 100258	180967
Pentachlorobiphenyls, Total	140	U	140	5	11/9/09	11/23/09 13:0	6 100258	180967
Hexachlorobiphenyls, Total	140	U	140	5	11/ 9/09	11/23/09 13:0	6 100258	180967
Heptachlorobiphenyls, Total	140	U	140	5	11/ 9/09	11/23/09 13:0	6 100258	180967
Octachlorobiphenyls, Total	140	U :	140	5	11/ 9/09	11/23/09 13:0	6 100258	180967
Nonachlorobiphenyls, Total	140	U	140	5	11/ 9/09	11/23/09 13:0	6 100258	180967
Decachlorobiphenyls, Total	390	1	140	5	11/ 9/09	11/23/09 13:0	6 100258	180967

Surrogate Name	%]	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	0	*	30-150	11/23/09 13:06	D		with the last
4,4'-DDT	0	*	30-150	11/23/09 13:06	D		

Comments:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

BOIL

Sample Name: Lab Code: SE-SS-14-110509 R0906411-015 Service Request: R0906411

Date Collected: 11/5/09 0917 **Date Received:** 11/7/09

Units: µg/Kg Basis: Dry

Percent Solids: 77.2

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

Analyte Name	Result	Q	MRL		8	Dilu Fac	tion ctor	Date Extracted		Extraction Lot	•	s Note
Monochlorobiphenyls, Total	78	U	78		10	À S	3	11/ 9/09	11/23/09 13:4	1 100258	180967	min.
Dichlorobiphenyls, Total	78	U	78			8 3	3	11/ 9/09	11/23/09 13:4	1 100258	180967	
Trichlorobiphenyls, Total	78	U	78			4 3	3	11/ 9/09	11/23/09 13:4	1 100258	180967	
Tetrachlorobiphenyls, Total	78	U	78	1	d	T 3	3 ,,	11/ 9/09	11/23/09 13:4	1 100258	180967	
Pentachlorobiphenyls, Total	140		78			3	3	11/ 9/09	11/23/09 13:4	1 100258	180967	
Hexachlorobiphenyls, Total	78	U	78			3	3	11/9/09	11/23/09 13:4	1 100258	180967	
Heptachlorobiphenyls, Total	78	U	78		1	3	3 og 19	11/ 9/09	11/23/09 13:4	1 100258	180967	a, i'
Octachlorobiphenyls, Total	78	U	78			3	3	11/ 9/09	11/23/09 13:4	1 100258	180967	
Nonachlorobiphenyls, Total	78	U	78			3	3	11/ 9/09	11/23/09 13:4	1 100258	180967	
Decachlorobiphenyls, Total	78	U	78			aT 3	3	11/ 9/09	11/23/09 13:4	1 100258	180967	

Surrogate Name		% <u>J</u>	Rec	Control Limits	Date Analyzed	Q	Note	Α,	
gamma-BHC (Lindane)	- 11 - 27	0	*	30-150	11/23/09 13:41	D			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4,4'-DDT		0	*	30-150	11/23/09 13:41	D			2 1

Comments:	
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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Service Request: R0906411 Date Collected: 11/5/09 0917

Date Received: 11/7/09

Sample Name:

SE-SS-14-110509

Lab Code:

R0906411-015

Run Type:

Dilution

Units: µg/Kg Basis: Dry

Percent Solids: 77.2

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

Analyte Name	Resul	t Q	MRL		Dilution Factor	Date Extracted		Extraction Lot	Analysis Lot Note
Monochlorobiphenyls, Total	78	3 U	78	NI T	3	11/9/09	11/24/09 16:0	7 100258	181276
Dichlorobiphenyls, Total	78	3 U	78		3	11/ 9/09	11/24/09 16:0	7 100258	181276
Trichlorobiphenyls, Total	_H_m_11 ft78	3 U	78		3	11/ 9/09	11/24/09 16:0	7 100258	181276
Tetrachlorobiphenyls, Total	78	3 U	78		3	11/ 9/09	11/24/09 16:0	7 100258	181276
Pentachlorobiphenyls, Total	150)	78		3	11/ 9/09	11/24/09 16:0	7 100258	181276
Hexachlorobiphenyls, Total	78	3 U	78		3	11/ 9/09	11/24/09 16:0	7 100258	181276
Heptachlorobiphenyls, Total	78	U	78		3	11/ 9/09	11/24/09 16:0	7 100258	181276
Octachlorobiphenyls, Total	78	U	78		3	11/ 9/09	11/24/09 16:0	7 100258	181276
Nonachlorobiphenyls, Total	78	U	78		3	11/9/09	11/24/09 16:0	7 100258	181276
Decachlorobiphenyls, Total	78	U	78	7	5 3	11/ 9/09	11/24/09 16:0	7 100258	181276

			Control	Date			
Surrogate Name	%R	ec	Limits	Analyzed	Q	Note	
gamma-BHC (Lindane)	0	*	30-150	11/24/09 16:07	D		n der sammen
4,4'-DDT	0	*	30-150	11/24/09 16:07	D		

Comme	nts:
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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

3011

Sample Name: Lab Code: SE-SS-15-110509 R0906411-016 Service Request: R0906411

Date Collected: 11/5/09 0958
Date Received: 11/7/09

Units: µg/Kg

Basis: Dry

Percent Solids: 68.3

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

								Dilution		Date	Date	Extraction	Analysis	
Analyte Name		Result	Q		MRL			I	actor	Extracted		Lot		Note
Monochlorobiphenyls, Total	u y	290	U	. IPI	290			ΙVÜ	10	11/ 9/09	11/20/09 14:2	8 100258	180730	1100
Dichlorobiphenyls, Total		290	U		290				10	11/9/09	11/20/09 14:2	8 100258	180730	
Trichlorobiphenyls, Total	- 3	290	U		290				10	11/9/09	11/20/09 14:2	8 100258	180730	
Tetrachlorobiphenyls, Total	5 7	290	U	W	290				10	11/ 9/09	11/20/09 14:2	8 100258	180730	
Pentachlorobiphenyls, Total		800			290				10	11/9/09	11/20/09 14:2	8 100258	180730	
Hexachlorobiphenyls, Total	ni le r	470			290				10	11/ 9/09	11/20/09 14:2	8 100258	180730	
Heptachlorobiphenyls, Total	E XIII	290	U		290			П	10	11/ 9/09	11/20/09 14:2	8 100258	180730	100
Octachlorobiphenyls, Total		290	U		290				10	11/ 9/09	11/20/09 14:2	8 100258	180730	
Nonachlorobiphenyls, Total		290	U	- *	290				10	11/ 9/09	11/20/09 14:2	8 100258	180730	
Decachlorobiphenyls, Total	200	330			290		11		10	11/ 9/09	11/20/09 14:2	8 100258	180730	-, 1

Surrogate Name	%Re	c i	Control Limits	Date Analyzed	Q	Note	100
gamma-BHC (Lindane)	0	*	30-150	11/20/09 14:28	D		
4,4'-DDT	0	*	30-150	11/20/09 14:28	D		

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

.

Sample Name:

SE-SS-15-110509 R0906411-016

Lab Code: Run Type:

Dilution

Service Request: R0906411

Date Collected: 11/5/09 0958

Date Received: 11/7/09

Units: μg/Kg Basis: Dry

Percent Solids: 68.3

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

Analyte Name		Result	Q	MRL		lution actor	Date Extracted		Extraction Lot		s Note
Monochlorobiphenyls, Total	e min in	290	U	290	ode.	10	11/ 9/09	11/23/09 16:30	5 100258	180967	= 18
Dichlorobiphenyls, Total		290	U	290		10	11/9/09	11/23/09 16:30	5 100258	180967	
Trichlorobiphenyls, Total		290	U	290		10	11/ 9/09	11/23/09 16:30	5 100258	180967	
Tetrachlorobiphenyls, Total	wpragrafi	290	U	290	Ta H	10	11/ 9/09	11/23/09 16:30	5 100258	180967	
Pentachlorobiphenyls, Total		880		290		10	11/9/09	11/23/09 16:30	5 100258	180967	
Hexachlorobiphenyls, Total		380		290		10	11/ 9/09	11/23/09 16:30	5 100258	180967	
Heptachlorobiphenyls, Total	11 37	290	U	290		10	11/9/09	11/23/09 16:30	5 100258	180967	
Octachlorobiphenyls, Total		290	U	290		10	11/ 9/09	11/23/09 16:30	5 100258	180967	
Nonachlorobiphenyls, Total		290	U	290		10	11/ 9/09	11/23/09 16:30	5 100258	180967	
Decachlorobiphenyls, Total		300	16	290		10	11/ 9/09	11/23/09 16:30	5 100258	180967	

Surrogate Name	The state of	%I	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)		0	*	30-150	11/23/09 16:36	D		
4,4'-DDT		0	*	30-150	11/23/09 16:36	D		

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

DOIL

Sample Name: Lab Code: SE-SS-16-110509 R0906411-017 Service Request: R0906411

Date Collected: 11/5/09 1047

Date Received: 11/7/09

Units: µg/Kg
Basis: Dry

Percent Solids: 72.2

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

							Dilution	Date	Date	Extraction	Analysi	S
Analyte Name		Result	Q	MRL			Factor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Total	T gran	280	U	280	-		10	11/ 9/09	11/20/09 15:0	3 100258	180730	1 1
Dichlorobiphenyls, Total	V	280	U	280	38	- *	10	11/ 9/09	11/20/09 15:0	3 100258	180730	
Trichlorobiphenyls, Total		280	U	280			10	11/ 9/09	11/20/09 15:0	3 100258	180730	
Tetrachlorobiphenyls, Total		280	U	280			10	11/ 9/09	11/20/09 15:0	3 100258	180730	1
Pentachlorobiphenyls, Total		280	U	280			10	11/ 9/09	11/20/09 15:0	3 100258	180730	
Hexachlorobiphenyls, Total		280	U	280		3	10	11/ 9/09	11/20/09 15:0	3 100258	180730	
Heptachlorobiphenyls, Total		280	U	280			10	11/ 9/09	11/20/09 15:0	3 100258	180730	
Octachlorobiphenyls, Total		280	U	280			10	11/ 9/09	11/20/09 15:0	3 100258	180730	
Nonachlorobiphenyls, Total	-1 -101	280	U	280			10	11/ 9/09	11/20/09 15:0	3 100258	180730	
Decachlorobiphenyls, Total		570		280			10	11/ 9/09	11/20/09 15:0	3 100258	180730	E it

Surrogate Name		%R	ec	Control Limits	Date Analyzed Q		Note	and there is
gamma-BHC (Lindane)	The state of the	0	*	30-150	11/20/09 15:03	D		
4,4'-DDT		0	*	30-150	11/20/09 15:03	D		

Commen	ts:
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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code: SE-SS-16-110509 R0906411-017

Run Type:

Dilution

Service Request: R0906411

Date Collected: 11/5/09 1047

Date Received: 11/7/09

Units: μg/Kg Basis: Dry

Percent Solids: 72.2

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

				Dilution	Date	Date	Extraction	Analysi	S
Analyte Name	Result	Q	MRL	Factor	Extracted		Lot		Note
Monochlorobiphenyls, Total	280	U	280	10	11/ 9/09	11/23/09 18:5	5 100258	180967	1000
Dichlorobiphenyls, Total	280	U	280	10	11/ 9/09	11/23/09 18:5	5 100258	180967	
Trichlorobiphenyls, Total	280	U	280	10	11/ 9/09	11/23/09 18:5	5 100258	180967	
Tetrachlorobiphenyls, Total	280	U	280	10	11/ 9/09	11/23/09 18:5	5 100258	180967	
Pentachlorobiphenyls, Total	280	U	280	10	11/ 9/09	11/23/09 18:5	5 100258	180967	
Hexachlorobiphenyls, Total	280	U	280	10	11/ 9/09	11/23/09 18:5	5 100258	180967	
Heptachlorobiphenyls, Total	280	U	280	10	11/ 9/09	11/23/09 18:5	5 100258	180967	
Octachlorobiphenyls, Total	280	U	280	10	11/ 9/09	11/23/09 18:5	5 100258	180967	
Nonachlorobiphenyls, Total	280	U	280	10	11/ 9/09	11/23/09 18:5	5 100258	180967	
Decachlorobiphenyls, Total	480		280	10	11/ 9/09	11/23/09 18:5	5 100258	180967	

Surrogate Name	%]	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	0	*	30-150	11/23/09 18:55	D		
4,4'-DDT	0	*	30-150	11/23/09 18:55	D		

Con	nm	amé	
CUL	шк		٠.

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code: SE-SS-17-110509 R0906411-018 Service Request: R0906411

Date Collected: 11/5/09 1210

Date Received: 11/7/09

Units: µg/Kg Basis: Dry

Percent Solids: 74.3

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

						Dilution	Date	Date	Extraction	Analysi	S
Analyte Name	Ph Shell	Result Q	MRL			Factor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Tota	1 5	27 U	27	25		1	11/ 9/09	11/20/09 16:1	2 100258	180730	IIIII
Dichlorobiphenyls, Total		27 U	27			1	11/9/09	11/20/09 16:1	2 100258	180730	
Trichlorobiphenyls, Total	DC 7 1211	27 U	27			1	11/9/09	11/20/09 16:1	2 100258	180730	
Tetrachlorobiphenyls, Total	r' via nit	44	27			1 .	11/ 9/09	11/20/09 16:1	2 100258	180730	
Pentachlorobiphenyls, Total		99	27			S 1	11/9/09	11/20/09 16:1	2 100258	180730	nui:
Hexachlorobiphenyls, Total		110	27			1	11/ 9/09	11/20/09 16:1	2 100258	180730	
Heptachlorobiphenyls, Tota	1	120	27			1	11/ 9/09	11/20/09 16:1	2 100258	180730	7.
Octachlorobiphenyls, Total		78	27			1	11/ 9/09	11/20/09 16:1	2 100258	180730	
Nonachlorobiphenyls, Total		140	27			1	11/ 9/09	11/20/09 16:1	2 100258	180730	
Decachlorobiphenyls, Total	Iw s.	510	27		11	1	11/ 9/09	11/20/09 16:1	2 100258	180730	e I

Surrogate Name		%Re	c	Control Limits	Date Analyzed Q	Note		
gamma-BHC (Lindane)	Г. Ш. Ш. Ш.	0	*	30-150	11/20/09 16:12 D	7 (8	To Ti	HE-Arrings
4,4'-DDT		0	*	30-150	11/20/09 16:12 D		Ţ. =	

Comm	ents:
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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

DOIL

Sample Name: Lab Code:

SE-SS-17-110509 R0906411-018

Run Type:

Reanalysis

Service Request: R0906411

Date Collected: 11/5/09 1210

Date Received: 11/7/09

Units: µg/Kg Basis: Dry

Percent Solids: 74.3

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

				Dilution	Date	Date	Extraction	Analysi	s
Analyte Name		Result Q	MRL	Factor	Extracted		Lot	-	Note
Monochlorobiphenyls, Total	9 11 79	27 U	27	1	11/ 9/09	11/23/09 18:2	0 100258	180967	nete ²
Dichlorobiphenyls, Total		27 U	27	- 0.71	11/ 9/09	11/23/09 18:2	0 100258	180967	81
Trichlorobiphenyls, Total		27 U	27	1	11/ 9/09	11/23/09 18:2	0 100258	180967	
Tetrachlorobiphenyls, Total	cw Eu	44	27	1	11/ 9/09	11/23/09 18:2	0 100258	180967	n eğir
Pentachlorobiphenyls, Total		110	27	1	11/9/09	11/23/09 18:2	0 100258	180967	
Hexachlorobiphenyls, Total		130	27	I	11/9/09	11/23/09 18:2	0 100258	180967	444
Heptachlorobiphenyls, Total		120	27	1	11/ 9/09	11/23/09 18:2	0 100258	180967	uniei
Octachlorobiphenyls, Total		66	27	1	11/9/09	11/23/09 18:2	0 100258	180967	
Nonachlorobiphenyls, Total	d In the	130	27	1	11/ 9/09	11/23/09 18:2	0 100258	180967	
Decachlorobiphenyls, Total		450	27	1 1	11/ 9/09	11/23/09 18:2	0 100258	180967	H _{te} ll 3

Surrogate Name	 %I	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	- 0	*	30-150	11/23/09 18:20	D	i de de	hi Hle-mbs
4,4'-DDT	0	*	30-150	11/23/09 18:20	D		

Comments:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code: SE-SS-18-110509 R0906411-019 Service Request: R0906411

Date Collected: 11/5/09 1308
Date Received: 11/7/09

Units: µg/Kg

Basis: Dry Percent Solids: 74.6

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted		Extraction Lot	Analysis Lot	
Monochlorobiphenyls, Total	27 U	27	 =3. 1	11/ 9/09	11/20/09 16:4	7 100258	180730	
Dichlorobiphenyls, Total	27 U	27	i		11/20/09 16:4		180730	
Trichlorobiphenyls, Total	27 U	27	1	11/ 9/09	11/20/09 16:4	7 100258	180730	
Tetrachlorobiphenyls, Total	27 U	27	 1	11/ 9/09	11/20/09 16:4	7 100258	180730	
Pentachlorobiphenyls, Total	27 U	27	1	11/ 9/09	11/20/09 16:4	7 100258	180730	
Hexachlorobiphenyls, Total	27 U	27	1	11/ 9/09	11/20/09 16:4	7 100258	180730	
Heptachlorobiphenyls, Total	27 U	27	 1 1	11/ 9/09	11/20/09 16:4	7 100258	180730	world
Octachlorobiphenyls, Total	27 U	27	1	11/ 9/09	11/20/09 16:4	7 100258	180730	
Nonachlorobiphenyls, Total	32	27	1	11/ 9/09	11/20/09 16:4	7 100258	180730	
Decachlorobiphenyls, Total	120	27	1	11/ 9/09	11/20/09 16:4	7 100258	180730	eme!

Surrogate Name			%I	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)		11 16	0	*	30-150	11/20/09 16:47	D		Trailing 1
4,4'-DDT		12	0	*	30-150	11/20/09 16:47	D		

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C.ORUI	ients:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code: SE-SS-18-110509 R0906411-019

Run Type:

Reanalysis

Service Request: R0906411

Date Collected: 11/5/09 1308

Date Received: 11/7/09

Units: μg/Kg Basis: Dry

Percent Solids: 74.6

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

					Dilution	Date	Date	Extraction	Analysi	s
Analyte Name		Result Q	MRL		Factor	Extracted		Lot		Note
Monochlorobiphenyls, Total		27 U	27		1	11/ 9/09	11/23/09 17:1	1 100258	180967	tile:
Dichlorobiphenyls, Total		27 U	27		1	11/9/09	11/23/09 17:1	1 100258	180967	
Trichlorobiphenyls, Total		27 U	27		. 1	11/9/09	11/23/09 17:1	1 100258	180967	
Tetrachlorobiphenyls, Total	, with	27 U	27		1 :	11/ 9/09	11/23/09 17:1	1 100258	180967	
Pentachlorobiphenyls, Total		27 U	27		1	11/9/09	11/23/09 17:1	1 100258	180967	
Hexachlorobiphenyls, Total	1111	27 U	27		1	11/9/09	11/23/09 17:1	1 100258	180967	
Heptachlorobiphenyls, Total		27 U	27	Y	1	11/ 9/09	11/23/09 17:1	1 100258	180967	111 77
Octachlorobiphenyls, Total		27 U	27		1	11/9/09	11/23/09 17:1	1 100258	180967	
Nonachlorobiphenyls, Total		33	27		1	11/ 9/09	11/23/09 17:1	1 100258	180967	
Decachlorobiphenyls, Total	F 1 1	110	27		1	11/9/09	11/23/09 17:1	1 100258	180967	K 21

Surrogate Name	%R	lec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	0	*	30-150	11/23/09 17:11	D		
4,4'-DDT		*	30-150	11/23/09 17:11	D		

Comments:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code:

SE-SS-19-110509

R0906411-020

Service Request: R0906411

Date Collected: 11/5/09 1440

Date Received: 11/7/09

Units: µg/Kg

Basis: Dry

Percent Solids: 74.4

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

							Dilution	Date	Date	Extraction	Analysi	S
Analyte Name		Result	Q		MRL	Y. Y	Factor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Total	igeingal.	27	U	ΰΣ	27		1 0	12/ 2/09	12/4/09 11:1:	101720	181903	
Dichlorobiphenyls, Total		27	U		27		1	12/2/09	12/4/09 11:13	101720	181903	
Trichlorobiphenyls, Total		27	U	_1	27		1	12/ 2/09	12/4/09 11:13	101720	181903	
Tetrachlorobiphenyls, Total	The I	27	U	V.	27		1	12/2/09	12/4/09 11:11	101720	181903	WL24
Pentachlorobiphenyls, Total		27	U	-	27		1	12/ 2/09	12/4/09 11:11	101720	181903	
Hexachlorobiphenyls, Total		44	्र		27		1	12/ 2/09	12/4/09 11:11	101720	181903	
Heptachlorobiphenyls, Total		27	U	UJ	27		s 1	12/ 2/09	12/4/09 11:11	101720	181903	74.1
Octachlorobiphenyls, Total		27	U		27		1	12/ 2/09	12/4/09 11:11	101720	181903	
Nonachlorobiphenyls, Total		27	U	<u> </u>	27		1 1	12/ 2/09	12/4/09 11:11	101720	181903	
Decachlorobiphenyls, Total		52	J		27		1	12/ 2/09	12/4/09 11:11	101720	181903	إجالي

			Control	Date			*
Surrogate Name	%	Rec	Limits	Analyzed	Q	Note	- Livray
gamma-BHC (Lindane)	0	*	30-150	12/4/09 11:11	D	13	V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4,4'-DDT	0	*	30-150	12/4/09 11:11	D		

Comments	:
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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code: SE-SS-20-110509 R0906411-021 Service Request: R0906411

Date Collected: 11/5/09 1510

Date Received: 11/7/09

Units: µg/Kg
Basis: Dry

Percent Solids: 76.5

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

				Dilu	tion Da	ite Date	Extraction	Analysi	is
Analyte Name	4 -1 -	Result Q	MRL	Fac	tor Extra	acted Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Total	II W	26 U U	J 26	1	12/	2/09 12/4/09 12:2	1 101720	181903	newebs.
Dichlorobiphenyls, Total		26 U	26	1	12/	2/09 12/4/09 12:2	1 101720	181903	
Trichlorobiphenyls, Total		26 U	26	1	12/	2/09 12/4/09 12:2	1 101720	181903	
Tetrachlorobiphenyls, Total	The same	26 U 🎝	26	1	12/	2/09 12/4/09 12:2	1 101720	181903	i o I
Pentachlorobiphenyls, Total		38 ゴ	26	1	12/	2/09 12/4/09 12:2	1 101720	181903	
Hexachlorobiphenyls, Total		54 J	26	- 1	12/	2/09 12/4/09 12:2	1 101720	181903	
Heptachlorobiphenyls, Total	Tri x	42 J	26	1	12/	2/09 12/4/09 12:2	1 101720	181903	en f
Octachlorobiphenyls, Total		26 U 🗸	J 26	1	12/	2/09 12/4/09 12:2	1 101720	181903	
Nonachlorobiphenyls, Total		26 U	26	1	12/	2/09 12/4/09 12:2	1 101720	181903	
Decachlorobiphenyls, Total	TILL!	68 J	26	1	12/	2/09 12/4/09 12:2	1 101720	181903	They's

Surrogate Name	%R	ec	Control Limits	Date Analyzed	Q	Note		
gamma-BHC (Lindane)	0	*	30-150	12/4/09 12:21	D		Marian Pull-arren	-
4,4'-DDT	0	*	30-150	12/4/09 12:21	D			

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Com	IMP	mrs:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

1

Date Collected: 11/5/09 1540 **Date Received:** 11/7/09

Service Request: R0906411

Sample Name: Lab Code:

SE-SS-21-110509 R0906411-022

Units: µg/Kg
Basis: Dry

Percent Solids: 76.4

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

go hija hat was a						Dilution	Date	Date	Extraction	Analysi	is
Analyte Name		Result	Q	MRL		Factor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Total	- m- 10	110	n 02	110	AT	4	12/ 2/09	12/4/09 13:3:	1 101720	181903	ı A M
Dichlorobiphenyls, Total		110	U	110		4	12/ 2/09	12/4/09 13:33	1 101720	181903	
Trichlorobiphenyls, Total		110	U	110		4	12/ 2/09	12/4/09 13:3	1 101720	181903	
Tetrachlorobiphenyls, Total		110	U	110		4	12/ 2/09	12/4/09 13:3:	1 101720	181903	
Pentachlorobiphenyls, Total		110	U	110		4	12/ 2/09	12/4/09 13:33	1 101720	181903	
Hexachlorobiphenyls, Total	3,412	160	J	110		4	12/ 2/09	12/4/09 13:3	1 101720	181903	
Heptachlorobiphenyls, Total		160	T	110		4	12/ 2/09	12/4/09 13:3:	1 101720	181903	udf.,
Octachlorobiphenyls, Total		110	ս օֆ	110		4	12/ 2/09	12/4/09 13:33	1 101720	181903	
Nonachlorobiphenyls, Total	10000	200	J	110		4	12/ 2/09	12/4/09 13:3	1 101720	181903	
Decachlorobiphenyls, Total		840	J	110		4	12/ 2/09	12/4/09 13:31	1 101720	181903	E E 7

Surrogate Name	%R	lec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	0	*	30-150	12/4/09 13:31	D		n Id 1912 d man
4,4'-DDT	0	*	30-150	12/4/09 13:31	D		

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Comm	ents:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code: SE-SS-22-110509 R0906411-023 Service Request: R0906411

Date Collected: 11/5/09 1610

Date Received: 11/7/09

Units: μg/Kg
Basis: Dry

Percent Solids: 79.1

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

	Ji C make			Dil	ution	Date	Date	Extraction	Analysi	S
Analyte Name	Result	Q	MRL	Fa	actor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Total	25	UU	J 25		1	12/ 2/09	12/4/09 14:40	101720	181903	
Dichlorobiphenyls, Total	25	U	25		1	12/ 2/09	12/4/09 14:40	101720	181903	
Trichlorobiphenyls, Total	25	U	25		1	12/ 2/09	12/4/09 14:40	101720	181903	
Tetrachlorobiphenyls, Total	25	U	25	2 11	1	12/ 2/09	12/4/09 14:40	101720	181903	** 3
Pentachlorobiphenyls, Total	25	U	25		1	12/ 2/09	12/4/09 14:40	101720	181903	
Hexachlorobiphenyls, Total	25	U	25	Ше	1	12/ 2/09	12/4/09 14:40	101720	181903	
Heptachlorobiphenyls, Total	25	บ	25		1	12/ 2/09	12/4/09 14:40	101720	181903	daga E.
Octachlorobiphenyls, Total	25	U	25		1	12/ 2/09	12/4/09 14:40	101720	181903	
Nonachlorobiphenyls, Total	25	U	25		1	12/ 2/09	12/4/09 14:40	101720	181903	
Decachlorobiphenyls, Total	25	U 🗸	25		1	12/ 2/09	12/4/09 14:40	101720	181903	

Surrogate Name	S. Media	%Re	ec	Control Limits	Date Analyzed	Q	Note	india strani asa
gamma-BHC (Lindane)		0	*	30-150	12/4/09 14:40	D	n'in	
4,4'-DDT		0	*	30-150	12/4/09 14:40	D		

omm	ionte	٠.

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name:

SE-SS-23-110509

Lab Code:

R0906411-024

Service Request: R0906411

Date Collected: 11/5/09 1650

Date Received: 11/7/09

Units: µg/Kg Basis: Dry

Percent Solids: 79.5

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

Analyte Name	Result Q		MRL		Dilution Factor	Date Extracted		Extraction Lot	Analysis Lot N	
Monochlorobiphenyls, Total	25 U	UJ	25		1 1 7	12/ 2/09	12/4/09 15:50	101720	181903	
Dichlorobiphenyls, Total	25 U	- }	25		1	12/ 2/09	12/4/09 15:50	101720	181903	
Trichlorobiphenyls, Total	25 U		25		1	12/ 2/09	12/4/09 15:50	101720	181903	
Tetrachlorobiphenyls, Total	25 U		25	1.6	1 1	12/ 2/09	12/4/09 15:50	101720	181903	
Pentachlorobiphenyls, Total	25 U	1	25		1 53	12/ 2/09	12/4/09 15:50	101720	181903	
Hexachlorobiphenyls, Total	26 5	F =	25		1	12/ 2/09	12/4/09 15:50	101720	181903	
Heptachlorobiphenyls, Total	25 U	US	25	4	1 +	12/ 2/09	12/4/09 15:50	101720	181903	7
Octachlorobiphenyls, Total	25 U	W	25		1	12/ 2/09	12/4/09 15:50	101720	181903	
Nonachlorobiphenyls, Total	55 J		25		1	12/ 2/09	12/4/09 15:50	101720	181903	
Decachlorobiphenyls, Total	230 J		25		1	12/ 2/09	12/4/09 15:50	101720	181903	

Surrogate Name	%Red	2	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	0	*	30-150	12/4/09 15:50	D		HAS IN WIRE A LETT
4,4'-DDT	0	*	30-150	12/4/09 15:50	D		

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C		
	Comments:	

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

SE-SS-23-110509-D

Sample Name: Lab Code:

R0906411-025

Service Request: R0906411

Date Collected: 11/5/09 1650

Date Received: 11/7/09

Units: µg/Kg

Basis: Dry

Percent Solids: 77.0

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

Analyte Name		Result	Ω		MRL		Dilution Factor	Date Extracted		Extraction Lot	•	s Note
Analyte Name		Mesuit	V		IVIXIC		 racioi	Extracted	Analyzeu	Lui	LOL	More
Monochlorobiphenyls, Total		. 26	U	25	26		1	12/ 2/09	12/4/09 17:00	101720	181903	X 11:11
Dichlorobiphenyls, Total		26	U		26		1	12/ 2/09	12/4/09 17:00	101720	181903	
Trichlorobiphenyls, Total		26	U		26		1	12/ 2/09	12/4/09 17:00	101720	181903	
Tetrachlorobiphenyls, Total		26	U		26		1	12/ 2/09	12/4/09 17:00	101720	181903	
Pentachlorobiphenyls, Total		26	U	V	26		1	12/2/09	12/4/09 17:00	101720	181903	
Hexachlorobiphenyls, Total		32	J		26		1	12/ 2/09	12/4/09 17:00	101720	181903	
Heptachlorobiphenyls, Total		36	J	- W	26	-	1 -1 2.3	12/ 2/09	12/4/09 17:00	101720	181903	
Octachlorobiphenyls, Total		26	U		26		1 4	12/ 2/09	12/4/09 17:00	101720	181903	
Nonachlorobiphenyls, Total		65	J		26		1	12/ 2/09	12/4/09 17:00	101720	181903	
Decachlorobiphenyls, Total	1 N T	260	J		26		1	12/ 2/09	12/4/09 17:00	101720	181903	

Surrogate Name	%F	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	0	*	30-150	12/4/09 17:00	D		
4,4'-DDT	0	*	30-150	12/4/09 17:00	D		

Comments:	

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code: SE-SS-24-110609 R0906411-026 Service Request: R0906411

Date Collected: 11/6/09 0845

Date Received: 11/7/09

Units: µg/Kg
Basis: Dry

Percent Solids: 74.0

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

Analyte Name	umil Original	Result Q	TTHE	MRL		Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot Not
Monochlorobiphenyls, Total		54 U	UJ	54	W	2	12/ 2/09	12/4/09 18:10	101720	181903
Dichlorobiphenyls, Total	6.	54 U	35_	54		2	12/2/09	12/4/09 18:10	101720	181903
Trichlorobiphenyls, Total		54 U		54		2	12/ 2/09	12/4/09 18:10	101720	181903
Tetrachlorobiphenyls, Total		54 U		54		2	12/ 2/09	12/4/09 18:10	101720	181903
Pentachlorobiphenyls, Total		54 U		54		2	12/ 2/09	12/4/09 18:10	101720	181903
Hexachlorobiphenyls, Total		54 U		54	(5)	2	12/ 2/09	12/4/09 18:10	0 101720	181903
Heptachlorobiphenyls, Total	14111	54 U		54		2	12/ 2/09	12/4/09 18:10	101720	181903
Octachlorobiphenyls, Total		54 U)	54		2	12/ 2/09	12/4/09 18:10	101720	181903
Nonachlorobiphenyls, Total		54 U	V	54	58	2	12/ 2/09	12/4/09 18:10	101720	181903
Decachlorobiphenyls, Total	Lill 8	140 5	Ţ	54		2	12/ 2/09	12/4/09 18:10	101720	181903

					Control	Date		-	
Surrogate Name	5 8		%F	Rec	Limits	Analyzed	Q	Note	
gamma-BHC (Lindane)		111	0	*	30-150	12/4/09 18:10	D		i i i i i i i i i i i i i i i i i i i
4.4'-DDT			0	*	30-150	12/4/09 18:10	D		

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Comments:		
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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

SOII

Sample Name: Lab Code: SE-SS-25-110609 R0906411-027 Service Request: R0906411

Date Collected: 11/6/09 0909

Date Received: 11/7/09

Units: μg/Kg Basis: Dry

Percent Solids: 75.3

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

				Dilution	Date	Date	Extraction	Analysi	S
Analyte Name	Result Q	MRL		Factor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Total	27 U UJ	27		1	12/ 2/09	12/4/09 19:19	101720	181903	11.39
Dichlorobiphenyls, Total	27 U	27		1	12/ 2/09	12/4/09 19:19	101720	181903	
Trichlorobiphenyls, Total	27 U	27		1	12/ 2/09	12/4/09 19:19	101720	181903	
Tetrachlorobiphenyls, Total	27 U	27	-	1	12/ 2/09	12/4/09 19:19	101720	181903	-114
Pentachlorobiphenyls, Total	27 U 🖖	27		1	12/ 2/09	12/4/09 19:19	101720	181903	
Hexachlorobiphenyls, Total	36 J	27	82 0%	1	12/ 2/09	12/4/09 19:19	101720	181903	
Heptachlorobiphenyls, Total	27 U Ų	27		1	12/ 2/09	12/4/09 19:19	101720	181903	3 11 1111
Octachlorobiphenyls, Total	27 U	27		1	12/ 2/09	12/4/09 19:19	101720	181903	
Nonachlorobiphenyls, Total	27 U	27		1	12/ 2/09	12/4/09 19:19	101720	181903	71
Decachlorobiphenyls, Total	77 5	27		1 1	12/ 2/09	12/4/09 19:19	101720	181903	

				Control	Date			
Surrogate Name		%R	lec	Limits	Analyzed	Q	Note	
gamma-BHC (Lindane)	2-1-11 Tu 1-1-15	0	*	30-150	12/4/09 19:19	D		मा व्यवस्थाति अध्यक्त
4,4'-DDT		0	*	30-150	12/4/09 19:19	D		

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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Sample Name: Lab Code: SE-SS-26-110609 R0906411-028

Soil

Units: µg/Kg

Service Request: R0906411

Date Received: 11/7/09

Date Collected: 11/6/09 0942

Basis: Dry Percent Solids: 75.1

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

, sawler to file as					Dilution	Date	Date	Extraction	Analysi	S
Analyte Name		Result Q	MRI		Factor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Tota	1	27 U	UJ 27		174	12/ 2/09	12/7/09 11:14	4 101720	182390	
Dichlorobiphenyls, Total		27 U	27		1	12/ 2/09	12/7/09 11:14	4 101720	182390	
Trichlorobiphenyls, Total		27 U	27		1	12/ 2/09	12/7/09 11:14	4 101720	182390	
Tetrachlorobiphenyls, Total	14 -	27 U	27		1	12/ 2/09	12/7/09 11:14	4 101720	182390	
Pentachlorobiphenyls, Tota	1	27 U	27		1	12/ 2/09	12/7/09 11:14	101720	182390	
Hexachlorobiphenyls, Total		27 U	= 27		1	12/ 2/09	12/7/09 11:14	4 101720	182390	
Heptachlorobiphenyls, Tota	1	27 U	27	10	1	12/ 2/09	12/7/09 11:14	101720	182390	T.
Octachlorobiphenyls, Total		27 U	27		1 3	12/ 2/09	12/7/09 11:14	4 101720	182390	
Nonachlorobiphenyls, Total		27 U	27		1, S	12/ 2/09	12/7/09 11:14	4 101720	182390	
Decachlorobiphenyls, Total		35 ゴ	27		1 1	12/ 2/09	12/7/09 11:14	101720	182390	ATTENT

Surrogate Name		%Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)		0 *	30-150	12/7/09 11:14	D		
4,4'-DDT	20 00 00 00	0 *	30-150	12/7/09 11:14	D		

28-10

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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Lab Code:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name:

SE-SS-27-110609 R0906411-029

3011

Service Request: R0906411

Date Collected: 11/6/09 1010

Date Received: 11/7/09

Units: µg/Kg
Basis: Dry

Percent Solids: 76.2

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

	7.55		Dilution	Date	Date	Extraction	Analysis
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Lot Note
Monochlorobiphenyls, Total	52 U	い 52	2	12/ 2/09	12/7/09 12:23	3 101720	182390
Dichlorobiphenyls, Total	52 U	52	2	12/ 2/09	12/7/09 12:23	101720	182390
Trichlorobiphenyls, Total	52 U	52	2	12/ 2/09	12/7/09 12:23	3 101720	182390
Tetrachlorobiphenyls, Total	52 U	52	2	12/ 2/09	12/7/09 12:23	101720	182390
Pentachlorobiphenyls, Total	52 U	52	2	12/ 2/09	12/7/09 12:23	3 101720	182390
Hexachlorobiphenyls, Total	52 U	52	2	12/ 2/09	12/7/09 12:23	3 101720	182390
Heptachlorobiphenyls, Total	52 U	52	2	12/ 2/09	12/7/09 12:23	3 101720	182390
Octachlorobiphenyls, Total	52 U	52	2	12/ 2/09	12/7/09 12:23	3 101720	182390
Nonachlorobiphenyls, Total	62 J	52	2	12/ 2/09	12/7/09 12:23	3 101720	182390
Decachlorobiphenyls, Total	190 J	52	2	12/ 2/09	12/7/09 12:23	3 101720	182390

Surrogate Name	%Re	c	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	0	*	30-150	12/7/09 12:23	D		u = _ U _
4,4'-DDT	0	*	30-150	12/7/09 12:23	D		

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Comments:			

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code: SE-SS-28-110609 R0906411-030

Service Request: R0906411

Date Collected: 11/6/09 1040

Date Received: 11/7/09

Units: μg/Kg Basis: Dry

Percent Solids: 76.5

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted		Extraction Lot	Analysis Lot Note
Monochlorobiphenyls, Total	52 U	VJ 52	2	12/ 2/09	12/7/09 13:33	101720	182390
Dichlorobiphenyls, Total	52 U	52	2	12/ 2/09	12/7/09 13:33	101720	182390
Trichlorobiphenyls, Total	52 U	52	2	12/ 2/09	12/7/09 13:33	101720	182390
Tetrachlorobiphenyls, Total	52 U	52	 2	12/ 2/09	12/7/09 13:33	101720	182390
Pentachlorobiphenyls, Total	52 U	52	2	12/ 2/09	12/7/09 13:33	101720	182390
Hexachlorobiphenyls, Total	52 U	52	2	12/ 2/09	12/7/09 13:33	101720	182390
Heptachlorobiphenyls, Total	52 U	52	 2	12/ 2/09	12/7/09 13:33	101720	182390
Octachlorobiphenyls, Total	52 U	52	2	12/ 2/09	12/7/09 13:33	101720	182390
Nonachlorobiphenyls, Total	52 U	52	2	12/ 2/09	12/7/09 13:33	101720	182390
Decachlorobiphenyls, Total	160	52	2	12/ 2/09	12/7/09 13:33	101720	182390

Surrogate Name		%R	ec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	n Soyu	0	*	30-150	12/7/09 13:33	D		
4,4'-DDT		0	*	30-150	12/7/09 13:33	D		

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Comments:	
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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

BOIL

Sample Name: Lab Code: SE-SS-29-110609 R0906411-031 Service Request: R0906411

Date Collected: 11/6/09 1117

Date Received: 11/7/09

Units: μg/Kg Basis: Dry

Percent Solids: 72.1

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

Agriculturi 12 and 2			Dilution	Date	Date	Extraction Analysis		
Analyte Name	Result Q	MRL	Factor	Extracted		Lot		Note
Monochlorobiphenyls, Total	140 U	UJ 140	5	12/ 2/09	12/7/09 17:02	101720	182390	neur
Dichlorobiphenyls, Total	140 U	140	5	12/ 2/09	12/7/09 17:02	101720	182390	
Trichlorobiphenyls, Total	140 U	140	5	12/ 2/09	12/7/09 17:02	101720	182390	
Tetrachlorobiphenyls, Total	140 U	140	5	12/ 2/09	12/7/09 17:02	101720	182390	811=1
Pentachlorobiphenyls, Total	140 U	140	5	12/ 2/09	12/7/09 17:02	2 101720	182390	
Hexachlorobiphenyls, Total	140 U	140	5	12/ 2/09	12/7/09 17:02	2 101720	182390	
Heptachlorobiphenyls, Total	140 U	140	5	12/ 2/09	12/7/09 17:02	101720	182390	Rhil
Octachlorobiphenyls, Total	140 U	140	5	12/ 2/09	12/7/09 17:02	2 101720	182390	
Nonachlorobiphenyls, Total	140 U	140	5	12/ 2/09	12/7/09 17:02	2 101720	182390	
Decachlorobiphenyls, Total	140 U	140	5	12/ 2/09	12/7/09 17:02	101720	182390	-ball

Surrogate Name		%]	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	2011	0	*	30-150	12/7/09 17:02	D		
4.4'-DDT		0	*	30-150	12/7/09 17:02	D		

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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name:

SE-SS-30-110609

Lab Code:

R0906411-032

Service Request: R0906411 Date Collected: 11/6/09 1145

Date Received: 11/7/09

Units: µg/Kg Basis: Dry

Percent Solids: 76.7

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

						Dilution	Date	Date	Extraction	Analysi	S
Analyte Name		Result	Q	MRL		Factor	Extracted	Analyzed	Lot		Note
Monochlorobiphenyls, Total	V I	100	UL	J 100		 4	12/ 2/09	12/7/09 18:12	101720	182390	0.00
Dichlorobiphenyls, Total		100	U	100		4	12/ 2/09	12/7/09 18:12	2 101720	182390	
Trichlorobiphenyls, Total		100	U	100		4	12/ 2/09	12/7/09 18:12	2 101720	182390	
Tetrachlorobiphenyls, Total		100	U	100		4	12/ 2/09	12/7/09 18:12	2 101720	182390	HET.
Pentachlorobiphenyls, Total		100	U	100		4	12/2/09	12/7/09 18:12	2 101720	182390	
Hexachlorobiphenyls, Total	==6	100	U	100	,	4	12/ 2/09	12/7/09 18:12	2 101720	182390	
Heptachlorobiphenyls, Total		100	U	100		4	12/ 2/09	12/7/09 18:12	2 101720	182390	
Octachlorobiphenyls, Total		100	U	100		4	12/ 2/09	12/7/09 18:12	2 101720	182390	
Nonachlorobiphenyls, Total		100	υJ	100		4	12/ 2/09	12/7/09 18:12	2 101720	182390	
Decachlorobiphenyls, Total		120	J	100	•	4	12/ 2/09	12/7/09 18:12	101720	182390	1000

			Control	Date			
Surrogate Name	%R	ec	Limits	Analyzed	Q	Note	
gamma-BHC (Lindane)	0	*	30-150	12/7/09 18:12	D	1-2	
4,4'-DDT	0	*	30-150	12/7/09 18:12	D		

11

Comments:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code: SE-SS-31-110609 R0906411-033

Date Received: 11/7/09
Units: ug/Kg

Service Request: R0906411

Units: µg/Kg
Basis: Dry

Date Collected: 11/6/09 1308

Percent Solids: 75.5

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

			Dilution	Date	Date	Extraction	Analysi	S
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Lot	Note
Monochlorobiphenyls, Total	260 U	260	10	11/11/09	12/2/09 20:13	100368	181720	
Dichlorobiphenyls, Total	260 U	260	10	11/11/09	12/2/09 20:11	100368	181720	
Trichlorobiphenyls, Total	260 U	260	10	11/11/09	12/2/09 20:11	100368	181720	
Tetrachlorobiphenyls, Total	260 U	260	10	11/11/09	12/2/09 20:13	100368	181720	
Pentachlorobiphenyls, Total	600	260	10	11/11/09	12/2/09 20:11	1 100368	181720	
Hexachlorobiphenyls, Total	660	260	10	11/11/09	12/2/09 20:13	100368	181720	
Heptachlorobiphenyls, Total	420	260	10	11/11/09	12/2/09 20:13	100368	181720	.=1:311
Octachlorobiphenyls, Total	260 U	260	10	11/11/09	12/2/09 20:13	100368	181720	
Nonachlorobiphenyls, Total	260 U	260	10	11/11/09	12/2/09 20:13	1 100368	181720	
Decachlorobiphenyls, Total	310	260	10	11/11/09	12/2/09 20:1	1 100368	181720	

Surrogate Name	v sami	%F	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)		0	*	30-150	12/2/09 20:11	D		
4,4'-DDT		0	*	30-150	12/2/09 20:11	D		

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code:

SE-SS-32-110609 R0906411-034

Service Request: R0906411

Date Collected: 11/6/09 1335

Date Received: 11/7/09

Units: µg/Kg Basis: Dry

Percent Solids: 79.7

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

right gransed				× ×]	Dilution	Date	Date	Extraction	Analysis
Analyte Name		Result	Q	MRL	13	Factor	Extracted	Analyzed	Lot	Lot Note
Monochlorobiphenyls, Tota	1	130	U	130	15	5	11/11/09	12/3/09 15:55	100368	182096
Dichlorobiphenyls, Total		130	U	130		5	11/11/09	12/3/09 15:55	100368	182096
Trichlorobiphenyls, Total		130	U	130		5	11/11/09	12/3/09 15:55	100368	182096
Tetrachlorobiphenyls, Total	Tarl Till	130	U	130		5	11/11/09	12/3/09 15:55	100368	182096
Pentachlorobiphenyls, Total		230		130		5	11/11/09	12/3/09 15:55	100368	182096
Hexachlorobiphenyls, Total		340		130		5	11/11/09	12/3/09 15:55	100368	182096
Heptachlorobiphenyls, Tota	1	240		130		5	11/11/09	12/3/09 15:55	100368	182096
Octachlorobiphenyls, Total		130	U	130		5	11/11/09	12/3/09 15:55	100368	182096
Nonachlorobiphenyls, Total		130	U	130		5	11/11/09	12/3/09 15:55	100368	182096
Decachlorobiphenyls, Total		200		130		5	11/11/09	12/3/09 15:55	100368	182096

Surrogate Name			%I	Rec	Control Limits	Date Analyzed	Q	Note	
gamma-BHC (Lindane)	****	15.1	0	*	30-150	12/3/09 15:55	D		1 1 1 1
4,4'-DDT			0	*	30-150	12/3/09 15:55	D		

Comments:				
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SuperSet Reference:

Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

DOII .

Sample Name: Lab Code: SE-SS-33-110609 R0906411-035 Service Request: R0906411

Date Collected: 11/6/09 1415

Date Received: 11/7/09

Units: µg/Kg

Basis: Dry

Percent Solids: 74.1

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

Analyte Name) 	Result Q		MRL	*	Dilution Factor	Date Extracted		Extraction Lot	•	s Note
Monochlorobiphenyls, Total		54 U		54		2	11/11/09	12/3/09 17:04	100368	182096	
Dichlorobiphenyls, Total		54 U		54		2	11/11/09	12/3/09 17:04	100368	182096	
Trichlorobiphenyls, Total		54 U		54		2	11/11/09	12/3/09 17:04	100368	182096	
Tetrachlorobiphenyls, Total		54 U		54		2	11/11/09	12/3/09 17:04	100368	182096	
Pentachlorobiphenyls, Total		54 U		54		2	11/11/09	12/3/09 17:04	100368	182096	
Hexachlorobiphenyls, Total		54 U		54		2	11/11/09	12/3/09 17:04	100368	182096	
Heptachlorobiphenyls, Total		54 U	V.	54		2	11/11/09	12/3/09 17:04	100368	182096	
Octachlorobiphenyls, Total		99		54		2	11/11/09	12/3/09 17:04	100368	182096	
Nonachlorobiphenyls, Total		59		54		2	11/11/09	12/3/09 17:04	100368	182096	
Decachlorobiphenyls, Total	DET.	110		54		2	11/11/09	12/3/09 17:04	100368	182096	

Surrogate Name	- 57	%F	Rec	Control Limits	Date Analyzed	Q	Note		Catalya edile
gamma-BHC (Lindane)		0	*	30-150	12/3/09 17:04	D		nii in	- Wantan
4,4'-DDT		0	*	30-150	12/3/09 17:04	D			

Comments:	
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Analytical Report

Client:

Weston Solutions, Incorporated

Project:

Sauget-E. St. Louis Residential/20405.016.008.0828.00

Sample Matrix:

Soil

Sample Name: Lab Code:

SE-SS-34-110609 R0906411-036

Service Request: R0906411

Date Collected: 11/6/09 1455

Date Received: 11/7/09

Units: μg/Kg Basis: Dry

Percent Solids: 74.7

Pesticides and PCBs in Water and Soil/Sediment by Gas Chromatography/Mass Spectrometry

Analytical Method: 680

Prep Method:

EPA 3550B

Analyte Name	Result	Q	MRL		Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	•	s Note
Monochlorobiphenyls, Total	27	U	27		1	11/11/09	12/3/09 18:14	100368	182096	
Dichlorobiphenyls, Total	27	U	27		1	11/11/09	12/3/09 18:14	100368	182096	
Trichlorobiphenyls, Total	27	U	27		1	11/11/09	12/3/09 18:14	100368	182096	
Tetrachlorobiphenyls, Total	27	U	27	-	1	11/11/09	12/3/09 18:14	100368	182096	
Pentachlorobiphenyls, Total	27	U	27		1	11/11/09	12/3/09 18:14	100368	182096	
Hexachlorobiphenyls, Total	27	U	27		1	11/11/09	12/3/09 18:14	100368	182096	
Heptachlorobiphenyls, Total	27	U	27		1	11/11/09	12/3/09 18:14	100368	182096	,01
Octachlorobiphenyls, Total	27	U	27		1	11/11/09	12/3/09 18:14	100368	182096	
Nonachlorobiphenyls, Total	27	U	27		1	11/11/09	12/3/09 18:14	100368	182096	
Decachlorobiphenyls, Total	64		27		1	11/11/09	12/3/09 18:14	100368	182096	

Surrogate Name	%R	lec	Control Limits	Date Analyzed	Q ·	Note	
gamma-BHC (Lindane)	0	*	30-150	12/3/09 18:14	D		
4,4'-DDT	0	*	30-150	12/3/09 18:14	D		3.88

Comments:

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